Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4915	blackboard$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:22
L2	1	(creat$3 new add$3) with stub$1 same L1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:28
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L4	5	stub$1 same L1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L5	2	4 and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:35
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L11	352	(L10 xor L8) (L10 and L8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
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L17	223	706/12.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L18	283	382/156.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L19	304	382/159.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L20	296	382/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34

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L26	819	(L25 xor L20) (L25 and L20)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L27	1212	(L24 xor L26) (L24 and L26)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L28	1252	(L27 xor L21) (L27 and L21)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L29	1617	(L13 xor L28) (L13 and L28)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:34
L30	35	3 and L29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:35

L31	28	30 and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 21:35

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Relevance scale

1 Can legal knowledge be derived from legal texts?
Vassilis Konstantinou, John Sykes, Georgios N. Yannopoulos
August 1993 **Proceedings of the fourth international conference on Artificial intelligence and law**

Full text available: pdf(940.77 KB) Additional Information: full citation, abstract, references, citings, index terms

Knowledge acquisition is undoubtedly one of the major bottle-necks in the development of legal expert systems. Usually the knowledge is collected by knowledge engineers who are forced to make their own interpretations of the knowledge in order to map it on a knowledge representation technique, thus resulting into erroneous and legally unacceptable interpretations of the law. The aim of NOMOS (an EC supported project under the ESPRIT II initiative) was to assist the knowledge engineer by pro ...

2 Databases and object-oriented technology: Object oriented programming: looking ahead to the year 2000
Richard C. Holt, Terry Stanhope, George Lausman
October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(1.78 MB) Additional Information: full citation, abstract, references, citings

This paper examines the strategic importance of object oriented programming, looking ahead to the year 2000. It also surveys the coming impact of the more general area of object oriented computing, which includes analysis, design, databases, libraries, tools, standards, graphical user interfaces, and environments. A model of the software industry called the "software fountain" is used to explain how these developments are likely to impact the various parts of the industry. A discussion is presen ...

3 A reconfigurable software style expert system (abstract only)
Robert A. Schmitt
February 1987 **Proceedings of the 15th annual conference on Computer Science**

Full text available: pdf(95.27 KB) Additional Information: full citation, abstract, index terms

A reconfigurable expert system that can be used as a software metrics tool is being developed. The system will critique a source program and produce comments discussing features of the program. Initially, the programs that will be critiqued are student Pascal programs from beginning and intermediate level programming courses. The comments produced are intended to help direct students to produce code that is well structured and

readable. This system does not deal with how a program is format ...

4 A decision support system for academic advising
W. Scott Murray, Louis A. Le Blanc
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Full text available: pdf(670.19 KB) Additional Information: full citation, references, citings, index terms

5 Determination of residence status for taxation law: development of a rule-based expert system
Rodney Fisher
June 1997 **Proceedings of the sixth international conference on Artificial intelligence and law**
Full text available: pdf(926.16 KB) Additional Information: full citation, references, index terms

6 "Boyd V. Deaver - Litigation Strategies" videodisc: an opportunity to improve curriculum and prototype expert systems
D. Burnstein
May 1989 **Proceedings of the second international conference on Artificial intelligence and law**
Full text available: pdf(746.06 KB) Additional Information: full citation, abstract, references, index terms

Once in a rare while we come across an environment that can illuminate several areas of inquiry. BOYD V. DEAVER: LITIGATION STRATEGIES is such a tool. The major original thesis of the paper is that using AI tools to gather the "audit trails" of case development strategies of experienced attorneys, and bringing them to the attention of law school professors would assist in curriculum assessment and development. The second aspect of the paper is a brief proposal to deve ...

7 CANDIDE: a learning system for process control
B. Burg, D. Luzeaux, B. Zavidovique
June 1989 **Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(656.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The aim of this paper is to present an application of artificial intelligence techniques to control. Their use at a high level, as supervisor tools is shortly described and we focuse the attention onto their use at low level, inside the control loops. We describe our approach using artificial intelligence machine learning to acquire knowledge concerning the controlled system, to modelise it and finally to control it. As an example, CANDIDE learns to drive a car. We explain all the learning ...

8 EMIR: an expert system for electromagnetic interference resolution
J. E. Bowen, B. A. Boewn
June 1989 **Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(513.96 KB) Additional Information: full citation, abstract, references, index terms

The increasing density and complexity of modern radio communications systems and the crowded electromagnetic environment make electromagnetic interference (EMI) a growing

concern. To ensure electromagnetic compatibility (EMC) in Transport Canada (TC) installations, such as airports and air traffic control centres, improved methods for systems design, installation and maintenance are required. When Electromagnetic Interference is found to be a problem, immediate steps are taken to identify a ...

9 Critical success factors in information center strategy

C. Royksund, M. Montri, J. F. Nunamaker

May 1988 **Proceedings of the ACM SIGCPR conference on Management of information systems personnel**

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

End user computing, whether on terminals or microcomputers, has created a need for training in the use of information technology, for controlling access to corporate data, for the preservation of corporate information integrity and compatibility, and for mediation between MIS/DP and other departments. Information centers, the formal corporate response to those needs, continue to grow in number and cost. An initial cost about $75,000 and support a staff of about 7 people is common ...

10 Users' preferences among different techniques for displaying the evaluation of LISP functions in an interactive debugger

J. M. Hary, L. A. Cohan, M. J. Darnell

May 1988 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(627.93 KB) Additional Information: full citation, abstract, references, index terms

Two experiments investigated various techniques for displaying the evaluation of LISP functions in an interactive debugger. The studies examined three techniques of highlighting the flow of evaluation in a LISP function and two display formats for displaying LISP function information. The subjects in both experiments included highly experienced LISP programmers and occasional LISP users with moderate to little LISP experience. The dependent measure was the subjects' preference rating for ea ...

11 Literary expert systems

Ian Lancashire

June 1986 **Proceedings of the 5th annual international conference on Systems documentation**

Full text available: pdf(426.82 KB) Additional Information: full citation, references, index terms

12 Familiar contexts, new technologies: adapting online help to simulate an expert system

Hilari Kleine Jones

October 1997 **Proceedings of the 15th annual international conference on Computer documentation**

Full text available: pdf(645.01 KB) Additional Information: full citation, references, index terms

13 XPL: an expert systems framework in APL

Robert Bittlestone

May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future**, Volume 15 Issue 4

Full text available: pdf(703.01 KB) Additional Information: full citation, abstract, references, citings, index terms

It is hardly possible to pick up a computer journal today without seeing references to the Alvey project in the UK, the Esprit project run by the EEC, the Japanese "Fifth generation"

initiative, the proliferation of knowledge-based computer companies around Stanford in California and MIT in Massachusetts, and the large amounts of money that are being poured into the development of expert systems. The references abound: as I write this article the September 1984 issue of "I ...

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- Capitalize proper nouns to search for specific people, places, or products.

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  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

  ```
  "museum of natural history" "museum of modern art"
  ```

- Narrow your searches by using a + if a search term must appear on a page.

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  museum +art
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- Exclude pages by using a - if a search term must not appear on a page.

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L3	158	706/60.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 20:27
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S25	11	((706/21.ccls. and (predict$ or shad$2)) and belief) and ((706/21. ccls. and (predict$ or shad$2)) and belief)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 19:22
S26	18	("5418888", "6058206", "51013625016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 19:55
S27	22	("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:59
S28	1	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and predict	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 19:57
S29	0	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and shadow	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 19:57
S30	10	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and exist	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:01
S31	0	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and tempor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:01

S32	2	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and temporal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:08
S33	9	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and type	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:09
S34	0	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and (before or after) adj type	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:11
S35	7	(("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and (learn$3 or train$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:12
S36	9	((("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and exist) and ((("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and type)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/02 22:37

S37	3	((("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and (learn$3 or train$3)) and ((((("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and exist) and ((("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn.) and type))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 20:13
S38	2	("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn. and unknown	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 21:01
S39	0	("5418888", "6058206", "5101362", "5016204", "5822745", "5819249", "5787234", "5493729", "5506999", "6256679", "6192355").pn. and undefined	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 21:01
S40	2	"6571013".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/02 22:38
S41	143	706/59.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:36
S42	93	706/61.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:36
S43	158	706/60.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:37

S44	158	S43	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:37
S45	280	(S41 xor S43) (S41 and S43)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:37
S46	352	(S45 xor S42) (S45 and S42)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:39
S47	8836	expert$1 adj systems	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:40
S48	213	S46 and S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:44
S49	33	706/49.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:44
S50	33	S49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:44
S51	382	(S46 xor S49) (S46 and S49)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 18:16
S52	4908	blackboard$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:45
S53	52	S47 with S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:46

S54	0	("13and@ad<=20000616").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/01 13:47
S55	40	S53 and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 20:30
S56	9	S55 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:50
S57	1	BELLA-IVAN.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:44
S58	21	HOOD-CHRISTOPHER.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:44
S59	21	(S57 xor S58) (S57 and S58)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:44
S60	34	(US-5016204$ US-5101362$ US-5208768$ US-5418888$ US-5493729$ US-5506999$ US-5574828$ US-5579468$ US-5638494$ US-5787234$ US-5819249$ US-5822745$ US-5874955$ US-6038556$ US-6058206$ US-6192355$ US-6256679$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:48
S61	0	(US-5016204$ US-5101362$ US-5208768$ US-5418888$ US-5493729$ US-5506999$ US-5574828$ US-5579468$ US-5638494$ US-5787234$ US-5819249$ US-5822745$ US-5874955$ US-6038556$ US-6058206$ US-6192355$ US-6256679$).did.	US-PGPUB	OR	ON	2004/12/02 08:48

S63	148	706/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
S64	17	706/51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
S65	17	706/57.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
S66	223	706/12.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
S67	283	382/156.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
S68	304	382/159.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
S69	296	382/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
S70	42	600/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
S71	165	(S63 xor S64) (S63 and S64)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:26
S72	181	(S71 xor S65) (S71 and S65)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:26

S73	401	(S72 xor S66) (S72 and S66)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:26
S74	546	(S67 xor S68) (S67 and S68)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:27
S75	819	(S74 xor S69) (S74 and S69)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:28
S76	1212	(S73 xor S75) (S73 and S75)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:28
S77	1252	(S76 xor S70) (S76 and S70)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:29
S78	2	(belief adj (network model)) with controller	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:31
S79	24	(belie$4 adj (network$3 model$1)) with control$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:52
S80	14	(learn$3 train$3) adj (control$3 system$1) same (statistics and probabilit$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:41
S81	37	(S79 xor S80) (S79 and S80)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:47
S82	12	(belie$4 adj (network$3 model$1)) and rule$1 and (tru$2 with fil$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:56

S83	2122	rule$1 same (spa$6 and physical$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:15
S84	17	S83 and S77	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:56
S85	29	(S82 xor S84) (S82 and S84) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:57
S86	17	(US-5016204$ US-5101362$ US-5208768$ US-5418888$ US-5493729$ US-5506999$ US-5574828$ US-5579468$ US-5638494$ US-5787234$ US-5819249$ US-5822745$ US-5874955$ US-6038556$ US-6058206$ US-6192355$ US-6256679$).did.	USPAT	OR	ON	2004/12/02 12:08
S87	19686	(north south east west contain$3 adjacent) adj type$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:28
S88	568418	(spa$6 with relat$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:26
S89	169	S87 same S88	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:19
S90	148	706/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S91	17	706/51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17

S92	17	706/57.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S93	223	706/12.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S94	283	382/156.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S95	304	382/159.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S96	296	382/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S97	42	600/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S98	165	(S90 xor S91) (S90 and S91)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S99	181	(S98 xor S92) (S98 and S92)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S100	401	(S99 xor S93) (S99 and S93)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S101	546	(S94 xor S95) (S94 and S95)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17

S102	819	(S101 xor S96) (S101 and S96)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S103	1212	(S100 xor S102) (S100 and S102)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S104	1252	(S103 xor S97) (S103 and S97)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 20:26
S105	0	S104 and S89	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:17
S106	2832	S87 and S88	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:20
S107	3	S106 and S104	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:20
S108	174076	(spa$6 adj relat$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:27
S109	5276	S108 with typ$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:27
S110	4463	(north south east west contain$3 adjacent) and S109	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:28
S111	2	S110 and S104	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 12:28

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1 **Generation of fuzzy rules involving spatial relations for computer vi**
Rhee, F.C.-H.; Krishnapuram, R.;
Fuzzy Systems, 1994. IEEE World Congress on Computational Intelligence., Proceedings of the Third IEEE Conference on , 26-29 June 1994
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[Abstract] [PDF Full-Text (480 KB)] **IEEE CNF**

2 **The space algebra: spatial reasoning without composition tables**
El-Geresy, B.A.;
Tools with Artificial Intelligence, 1997. Proceedings., Ninth IEEE International Conference on , 3-8 Nov. 1997
Pages:67 - 74

[Abstract] [PDF Full-Text (644 KB)] **IEEE CNF**

3 **A presentation scheduling scheme for multimedia databases**
Jisook Par; Sukho Lee; Jaehyuk Cha; Yunmook Nah;
Computer Software and Applications Conference, 1996. COMPSAC '96., Proceedings of 20th International , 21-23 Aug. 1996
Pages:284 - 289

[Abstract] [PDF Full-Text (472 KB)] **IEEE CNF**

4 **Design and implementation of a visual query language for large spa databases**
Morris, A.J.; Abdelmoty, A.I.; Tudhope, D.S.; El-Geresy, B.A.;
Information Visualisation, 2002. Proceedings. Sixth International Conference on , 10-12 July 2002
Pages:226 - 233

[Abstract] [PDF Full-Text (384 KB)] IEEE CNF

5 **Saving space: a unified approach for representing and reasoning ov different qualitative spatial relations**
El-Geresy, B.A.; Abdelmoty, A.I.;
Tools with Artificial Intelligence, 1998. Proceedings. Tenth IEEE International Conference on , 10-12 Nov. 1998
Pages:440 - 447

[Abstract] [PDF Full-Text (628 KB)] IEEE CNF

6 **Object-based representation and classification of spatial structures relations**
Le Ber, F.; Napoli, A.;
Tools with Artificial Intelligence, 2002. (ICTAI 2002). Proceedings. 14th IEEE International Conference on , 4-6 Nov. 2002
Pages:268 - 275

[Abstract] [PDF Full-Text (305 KB)] IEEE CNF

7 **Symbolic two and three dimensional picture retrieval**
Hildebrandt, J.;
TENCON '92. Technology Enabling Tomorrow : Computers, Communications a Automation towards the 21st Century. 1992 IEEE Region 10 International Conference. , 11-13 Nov. 1992
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8 **Automatic decomposition of planned assembly sequences into skill primitives**
Mosemann, H.; Wahl, F.M.;
Robotics and Automation, IEEE Transactions on , Volume: 17 , Issue: 5 , Oct.

Pages:709 - 718

[Abstract] [PDF Full-Text (288 KB)] IEEE JNL

9 **Image segmentation using temporal-spatial information in dynamic scenes**
Wen-Qing Huang; Ya-Ming Wang; Yun Zhao;
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Pages:3140 - 3145 Vol.5

[Abstract] [PDF Full-Text (438 KB)] IEEE CNF

10 **A formal background to build constraint objects**
Di Deo, A.; Boulanger, D.;
Database Engineering and Applications Symposium, 2000 International , 18-2 Sept. 2000
Pages:7 - 15

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11 **Study of site-specific bone formation using a neural network model**
Li Yuan Mi; Basu, M.; Fritton, S.; Cowin, S.;
Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Conference on , Volume: 3 , 24-27 July 2000
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[Abstract] [PDF Full-Text (216 KB)] IEEE CNF

12 **Medicus-system for medical data visualization**
Jezek, B.; Antos, K.; Homola, A.;
Information Technology Applications in Biomedicine, 1997. ITAB '97., Proceed of the IEEE Engineering in Medicine and Biology Society Region 8 Internationa Conference , 7-9 Sept. 1997
Pages:92

[Abstract] [PDF Full-Text (48 KB)] IEEE CNF

13 **Case study: visual access for landscape event based temporal data**
Sheelagh, M.; Carpendale, T.; Fall, A.; Cowperthwaite, D.J.; Fall, J.; Fracchia,
Visualization '96. Proceedings. , 27 Oct.-1 Nov. 1996
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14 **Graph-based knowledge representation for GIS data**
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Pages:117 - 124

[Abstract] [PDF Full-Text (307 KB)] IEEE CNF

15 **Study on model of spatial data mining based on double-bases cooperating mechanism**
Hongchun Yuan; Fanlun Xiong;
Intelligent Control and Automation, 2002. Proceedings of the 4th World Congr on , Volume: 2 , 10-14 June 2002
Pages:1489 - 1493 vol.2

[Abstract] [PDF Full-Text (439 KB)] IEEE CNF

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16 **About precision and integrity in visual query languages for spatial databases**
Favetta, F.; Laurini, R.;
Database Systems for Advanced Applications, 2001. Proceedings. Seventh International Conference on , 18-21 April 2001
Pages:286 - 293

[Abstract] [PDF Full-Text (928 KB)] **IEEE CNF**

17 **Metaphors of intent**
Potts, C.;
Requirements Engineering, 2001. Proceedings. Fifth IEEE International Sympc on , 27-31 Aug. 2001
Pages:31 - 38

[Abstract] [PDF Full-Text (744 KB)] **IEEE CNF**

18 **Hyperspectral imaging for benthic species recognition in shallow coastal waters**
Anstee, J.M.; Dekker, A.G.; Brando, V.; Pinnel, N.; Byrne, G.; Daniel, P.; Helc
Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 6 , 9-13 July 2001
Pages:2513 - 2515 vol.6

[Abstract] [PDF Full-Text (652 KB)] **IEEE CNF**

19 **Adaptive multiresolution quantization for contextual information g SAR sea ice images**
Leen-Klat Soh; Tsatsoulis, C.;
Geoscience and Remote Sensing Symposium, 1999. IGARSS '99 Proceedings.

1999 International , Volume: 3 , 28 June-2 July 1999
Pages:1567 - 1569 vol.3

[Abstract] [PDF Full-Text (436 KB)] IEEE CNF

20 **Robotic vision: 3D object recognition and pose determination**
Wong, A.K.C.; Rong, L.; Liang, X.;
Intelligent Robots and Systems, 1998. Proceedings., 1998 IEEE/RSJ Internatic Conference on , Volume: 2 , 13-17 Oct. 1998
Pages:1202 - 1209 vol.2

[Abstract] [PDF Full-Text (1080 KB)] IEEE CNF

21 **On-line Multimedia Transport Protocol: separated channels are integrated using control channel**
EunGi Kim; SungWon Park; ByungKwen Song; SunShin An;
Multimedia Communications, 1994. MULTIMEDIA '94., 5th IEEE COMSOC International Workshop on , 16-19 May 1994
Pages:6/1/1 - 6/1/6

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF

22 **Deriving ambiguous spatial relations**
Travers, A.; Kieronska, D.; Venkatesh, S.;
AI, Simulation, and Planning in High Autonomy Systems, 1993. 'Integrating V Reality and Model-Based Environments'. Proceedings. Fourth Annual Conference , 20-22 Sept. 1993
Pages:47 - 53

[Abstract] [PDF Full-Text (448 KB)] IEEE CNF

23 **Spatial relations among fuzzy subsets of an image**
Keller, J.M.; Sztandera, L.;
Uncertainty Modeling and Analysis, 1990. Proceedings., First International Symposium on , 3-5 Dec. 1990
Pages:207 - 211

[Abstract] [PDF Full-Text (348 KB)] IEEE CNF

24 **Representation of multi-resolution symbolic and binary pictures usi 2D H-strings**
Chang, S.K.; Li, Y.;
Languages for Automation: Symbiotic and Intelligent Robots, 1988., IEEE Workshop on , 29-31 Aug. 1988
Pages:190 - 195

[Abstract] [PDF Full-Text (300 KB)] IEEE CNF

25 **Monocular computer vision**
Bassmann, H.; Besslich, P.W.;
Image Processing and its Applications, 1989., Third International Conference on , 18-20 Jul 1989
Pages:107 - 111

[Abstract] [PDF Full-Text (252 KB)] IEE CNF

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Anstee, J.M.; Dekker, A.G.; Brando, V.; Pinnel, N.; Byrne, G.; Daniel, P.; Helc
Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 6 , 9-13 July 2001
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1 **A presentation scheduling scheme for multimedia databases**
Jisook Par; Sukho Lee; Jaehyuk Cha; Yunmook Nah;
Computer Software and Applications Conference, 1996. COMPSAC '96., Proceedings of 20th International , 21-23 Aug. 1996
Pages:284 - 289

[Abstract] [PDF Full-Text (472 KB)] **IEEE CNF**

2 **Hyperspectral imaging for benthic species recognition in shallow co: waters**
Anstee, J.M.; Dekker, A.G.; Brando, V.; Pinnel, N.; Byrne, G.; Daniel, P.; Helc
Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 6 , 9-13 July 2001
Pages:2513 - 2515 vol.6

[Abstract] [PDF Full-Text (652 KB)] **IEEE CNF**

3 **On-line Multimedia Transport Protocol: separated channels are integrated using control channel**
EunGi Kim; SungWon Park; ByungKwen Song; SunShin An;
Multimedia Communications, 1994. MULTIMEDIA '94., 5th IEEE COMSOC International Workshop on , 16-19 May 1994
Pages:6/1/1 - 6/1/6

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1 Metric details for natural-language spatial relations

Max J. Egenhofer, A. Rashid B. M. Shariff

October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

Spatial relations often are desired answers that a geographic information system (GIS) should generate in response to a user's query. Current GIS's provide only rudimentary support for processing and interpreting natural-language-like spatial relations, because their models and representations are primarily quantitative, while natural-language spatial relations are usually dominated by qualitative properties. Studies of the use of spatial relations in natural language showed that topology ...

Keywords: GIS, Metric refinements, geographic information systems, spatial relations, topological relations

2 Image and video digital libraries: Generating fuzzy semantic metadata describing spatial relations from images using the R-histogram

Yuhang Wang, Fillia Makedon, James Ford, Li Shen, Dina Goldin

June 2004 **Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries**

Full text available: pdf(193.62 KB) Additional Information: full citation, abstract, references, index terms

Automatic generation of semantic metadata describing spatial relations is highly desirable for image digital libraries Relative spatial relations between objects in an image convey important information about the image. Because the perception of spatial relations is subjective, we propose a novel framework for automatic metadata generation based on fuzzy *k*-NN classification that generates fuzzy semantic metadata describing spatial relations between objects in an image. For each pair of ob ...

Keywords: *k*-nearest neighbor rule, image digital library, metadata, prototype selection, r-histogram, spatial relations

3 Reception and posters: R-Histogram: quantitative representation of spatial relations for similarity-based image retrieval

Yuhang Wang, Fillia Makedon

November 2003 **Proceedings of the eleventh ACM international conference on**

Multimedia

Full text available: pdf(330.87 KB) Additional Information: full citation, abstract, references, index terms

Representation of relative spatial relations between objects is required in many multimedia database applications. Quantitative representation of spatial relations taking into account shape, size, orientation and distance is often required. This cannot be accomplished by assimilating an object to elementary entities such as the centroid or the minimum bounding rectangle. Thus many authors have proposed numerous representations based on the notion of histograms of angles. However, they can only r ...

Keywords: R-Histogram, image retrieval, similarity search, spatial relations

4 Technical poster session 1: multimedia analysis, processing, and retrieval: R*-Histograms: efficient representation of spatial relations between objects of arbitrary topology

Yuhang Wang, Fillia Makedon, Amit Chakrabarti

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(131.16 KB) Additional Information: full citation, abstract, references, index terms

Representation of relative spatial relations between objects is often required in many multimedia database applications because spatial relations between objects in an image convey important information about the image. Quantitative representation of spatial relations taking into account shape, size, orientation and distance is often required. The R-Histogram is such a quantitative representation of spatial relations between two objects. However, this method only considers pixels on the objec ...

Keywords: R*-Histogram, efficient algorithms, image retrieval, similarity search, spatial relations

5 Special issue on spatial database systems: Qualitative representation of spatial knowledge in two-dimensional space

Dimitris Papadias, Timos Sellis

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4

Full text available: pdf(2.09 MB) Additional Information: full citation, abstract, references, citings

Various relation-based systems, concerned with the qualitative representation and processing of spatial knowledge, have been developed in numerous application domains. In this article, we identify the common concepts underlying qualitative spatial knowledge representation, we compare the representational properties of the different systems, and we outline the computational tasks involved in relation-based spatial information processing. We also describe *symbolic spatial indexes,* relation- ...

Keywords: qualitative spatial information processing, representation of direction and topological relations, spatial data models, spatial query languages

6 Linear approximation of planar spatial databases using transitive-closure logic

Floris Geerts, Bart Kuijpers

May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(254.01 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider spatial databases in the plane that can be defined by polynomial constraint formulas. Motivated by applications in geographic information systems, we investigate linear approximations of spatial databases and study in which language they can be expressed effectively. Specifically, we show that they cannot be expressed in the standard first-order query language for polynomial constraint databases but that an extension of this first-order language with transitive closure suffices ...

7 A real world object modeling method for creating simulation environment of real-time systems

Ji Y. Lee, Hye J. Kim, Kyo C. Kang

October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 35 Issue 10

Full text available: pdf(405.16 KB) Additional Information: full citation, abstract, references, index terms

Most real-time embedded control software feature complex interactions with asynchronous inputs and environment objects, and a meaningful simulation of a real-time control software specification requires realistic simulation of its environment. Two problems that need to be addressed in the simulation of a target software system and its environment: First, integration and simulation of the specifications of a target software system and its artificial environment are often performed too late in the ...

Keywords: real-time control software, requirement specification, simulation, validation, verification

8 Special issue on spatial database systems: A semantic modeling approach for image retrieval by content

Wesley W. Chu, Ion T. Ieong, Ricky K. Taira

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings

We introduce a semantic data model to capture the hierarchical, spatial, temporal, and evolutionary semantics of images in pictorial databases. This model mimics the user's conceptual view of the image content, providing the framework and guidelines for preprocessing to extract image features. Based on the model constructs, a spatial evolutionary query language (SEQL), which provides direct image object manipulation capabilities, is presented. With semantic information captured in the model, spa ...

Keywords: image, medical, multimedia databases, spatial query processing, temporal evolutionary query processing

9 Interface applications: Understanding location descriptions in the LEI system

David N. Chin, Matthew McGranaghan, Tung-Tse Chen

October 1994 **Proceedings of the fourth conference on Applied natural language processing**

Full text available: pdf(604.83 KB) Publisher Site Additional Information: full citation, abstract, references

Biological specimens have historically been labeled with English descriptions of the location of collection. To perform spatial, statistical, or historic studies, these descriptions must be converted into geodetic coordinates. A study of the sublanguage used in the descriptions shows much less frequent than typical usage of observer-relative relations such as "left of," but shows problems with name ambiguity, finding the referents of generic terms like "the stream," ordinal numbering of river fo ...

10 A relational model for interactive manipulation of form features based on algebraic geometry
G. Brunetti, T. De Martino, B. Falcidieno, S. Habinger
December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**
Full text available: pdf(891.45 KB) Additional Information: full citation, references, citings, index terms

Keywords: algebraic geometry, design by features, geometric constraints, integrated feature-based systems, interactive feature manipulation, user-defined features

11 Uncertainty handling in spatial relationships
M. Vazirgiannis
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**
Full text available: pdf(550.36 KB) Additional Information: full citation, references, citings, index terms

Keywords: fuzzy logic, spatial databases, spatial relations, uncertainty handling

12 Topological relations between fuzzy regions
F. Benjamin Zhan
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**
Full text available: pdf(414.51 KB) Additional Information: full citation, references, citings, index terms

Keywords: GIS, fuzzy geographic regions, fuzzy sets, spatial objects, topological relations

13 Posters: A visually grounded natural language interface for reference to spatial scenes
Peter Gorniak, Deb Roy
November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**
Full text available: pdf(585.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Many user interfaces, from graphic design programs to navigation aids in cars, share a virtual space with the user. Such applications are often ideal candidates for speech interfaces that allow the user to refer to objects in the shared space. We present an analysis of how people describe objects in spatial scenes using natural language. Based on this study, we describe a system that uses synthetic vision to "see" such scenes from the person's point of view, and that understands complex natural ...

Keywords: cognitive modelling, computational semantics, natural language understanding, vision based semantics

14 Visual query and analysis tool of the object-relational GIS framework
Zoran Stojanovic, Slobodanka Djordjevic-Kajan, Dragan Stojanovic
November 2000 **Proceedings of the ninth international conference on Information and**

knowledge management

Full text available: pdf(589.86 KB) Additional Information: full citation, references

15 Ambiguous intentions: a paper-like interface for creative design

Mark D. Gross, Ellen Yi-Luen Do

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.20 MB) Additional Information: full citation, references, citings, index terms

Keywords: ambiguity and imprecision, design environments, drawing, graphical techniques, pen based systems

16 Perception and representation of spatial relations in a program for playing Go

Walter Reitman, Bruce Wilcox

January 1975 **Proceedings of the 1975 annual conference**

Full text available: pdf(486.36 KB) Additional Information: full citation, abstract, references, index terms

Observation of human spatial perception suggests several characteristics that may serve as useful guidelines in the design of perception components for artificial intelligence systems. This paper describes one component designed in accordance with these principles, a web perception processor for a Go playing program. After a brief discussion of some basic strategic Go concepts, the paper describes the construction and modification of perceptual webs. Then, using examples from a real game si ...

17 A general method for spatial reasoning in spatial databases

Alia I. Abdelmoty, Baher A. El-Geresy

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Full text available: pdf(593.78 KB) Additional Information: full citation, references, citings, index terms

18 Assembly sequencing with toleranced parts

Jean-Claude Latombe, Randall H. Wilson

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Full text available: pdf(1.28 MB) Additional Information: full citation, references, index terms

Keywords: assembly planning, assembly sequencing, non-directional blocking graph, solid modeling, tolerancing

19 A formal model for the discrete representation of spatial objects

Francesca Coppa, Enrico Nardelli, Maurizio Talamo

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(593.06 KB) Additional Information: full citation, references, index terms

Keywords: data models, spatial databases, spatial relations

20 A spatial knowledge structure for image information systems using symbolic projections

Shi-Kuo Chang, Eriand Jungert

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available: pdf(687.34 KB) Additional Information: full citation, references, citings, index terms

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1 A word-based approach for modeling and discovering temporal relations embedded in Chinese sentences

Wenjie Li, Kam-Fai Wong

September 2002 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 1 Issue 3

Full text available: pdf(506.36 KB) Additional Information: full citation, abstract, references, index terms

Conventional information extraction systems cannot effectively mine temporal information. For example, users' queries on how one event is related to another in time could not be handled effectively. For this reason, it is important to capture and deduce temporal knowledge associated with the relevant events. It is generally acknowledged that information extraction cannot be isolated from natural language processing. As Chinese has no tenses, conventional means for finding temporal references bas ...

Keywords: Chinese language processing, temporal information processing, temporal relationship discovery

2 A complete temporal relational algebra

Debabrata Dey, Terence M. Barron, Veda C. Storey

August 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 3

Full text available: pdf(273.16 KB) Additional Information: full citation, abstract, index terms

Various temporal extensions to the relational model have been proposed. All of these, however, deviate significantly from the original relational model. This paper presents a temporal extension of the relational algebra that is not significantly different from the original relational model, yet is at least as expressive as any of the previous approaches. This algebra employs multidimensional tuple time-stamping to capture the complete temporal behavior of data. The basic relational operations ar ...

Keywords: Historical databases, Relational algebra, Temporal databases, Transaction time, Valid time

3 Reasoning about temporal relations: The tractable subalgebras of Allen's interval algebra

Andrei Krokhin, Peter Jeavons, Peter Jonsson

September 2003

Journal of the ACM (JACM), Volume 50 Issue 5

Full text available: pdf(489.94 KB) Additional Information: full citation, abstract, references, index terms

Allen's interval algebra is one of the best established formalisms for temporal reasoning. This article provides the final step in the classification of complexity for satisfiability problems over constraints expressed in this algebra. When the constraints are chosen from the full Allen's algebra, this form of satisfiability problem is known to be NP-complete. However, eighteen tractable subalgebras have previously been identified; we show here that these subalgebras include all possible tractab ...

Keywords: Allen's algebra, NP-completeness, complexity, dichotomy theorem, representing graphs by intervals, satisfiability of temporal constraints, tractable cases

4 Experimenting with temporal relational databases

Iqbal A. Goralwalla, Abudullah U. Tansel, M. Tamer Özsu

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Full text available: pdf(988.36 KB) Additional Information: full citation, references, index terms

5 Reasoning about temporal relations: a maximal tractable subclass of Allen's interval algebra

Bernhard Nebel, Hans-Jürgen Bürckert

January 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 1

Full text available: pdf(1.75 MB) Additional Information: full citation, abstract, references, citings, index terms

We introduce a new subclass of Allen's interval algebra we call "ORD-Horn subclass," which is a strict superset of the "pointisable subclass." We prove that reasoning in the ORD-Horn subclass is a polynomial-time problem and show that the path-consistency method is sufficient for deciding satisfiability. Further, using an extensive machine-generated case analysis, we show that the ORD-Horn subclass is a maximal tractable subclass of the full algebra (assuming P

Keywords: constraint satisfaction, interval algebra, qualitative reasoning, temporal reasoning

6 Student session: Temporal relations: reference or discourse coherence?

Andrew Kehler

June 1994 **Proceedings of the 32nd conference on Association for Computational Linguistics**

Full text available: pdf(323.38 KB) Publisher Site Additional Information: full citation, abstract, references, citings

The temporal relations that hold between events described by successive utterances are often left implicit or underspecified. We address the role of two phenomena with respect to the recovery of these relations: (1) the referential properties of tense, and (2) the role of temporal constraints imposed by coherence relations. We account for several facets of the identification of temporal relations through an integration of these.

7 Weak temporal relations

Shashi K Gadia

June 1985 **Proceedings of the fifth ACM SIGACT-SIGMOD symposium on Principles of database systems**

Full text available: pdf(690.18 KB) Additional Information: full citation, references, citings, index terms

8 The temporal query language TQuel
Richard Snodgrass
June 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 2

Full text available: pdf(4.12 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Recently, attention has been focused on temporal databases, representing an enterprise over time. We have developed a new language, Tquel, to query a temporal database. TQuel was designed to be a minimal extension, both syntactically and semantically, of Quel, the query language in the Ingres relational database management system. This paper discusses the language informally, then provides a tuple relational calculus semantics for the TQuel statements that ...

9 A homogeneous relational model and query languages for temporal databases
Shashi K. Gadia
October 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 4

Full text available: pdf(2.40 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In a temporal database, time values are associated with data item to indicate their periods of validity. We propose a model for temporal databases within the framework of the classical database theory. Our model is realized as a temporal parameterization of static relations. We do not impose any restrictions upon the schemes of temporal relations. The classical concepts of normal forms and dependencies are easily extended to our model, allowing a suitable design for a database scheme. We pr ...

10 Evaluation of relational algebras incorporating the time dimension in databases
L. Edwin McKenzie, Richard T. Snodgrass
December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available: pdf(3.76 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: aggregate, chronon, historical relation, homogeneity, query optimization, snapshot relation, transaction time, valid time

11 Temporal statement modifiers
Michael H. Böhlen, Christian S. Jensen, Richard T. Snodgrass
December 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 4

Full text available: pdf(317.23 KB) Additional Information: full citation, abstract, references, citings, index terms

A wide range of database applications manage time-varying data. Many temporal query languages have been proposed, each one the result of many carefully made yet subtly interacting design decisions. In this article we advocate a different approach to articulating a set of requirements, or desiderata, that directly imply the syntactic structure and core semantics of a temporal extension of an (arbitrary) nontemporal query language. These desiderata facilitate transitioning applications from a ...

Keywords: ATSQL, statement modifiers, temporal databases

12 Discourse and dialogue: Temporal structure of discourse
Irene Pimenta Rodrigues, José Gabriel P. Lopes
August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 1**
Full text available: pdf(441.35 KB) Additional Information: full citation, abstract, references

In this paper discourse segments are defined and a method for discourse segmentation primarily based on abduction of temporal relations between segments is proposed. This method is precise and computationally feasible and is supported by previous work in the area of temporal anaphora resolution.

13 Logical design for temporal databases with multiple granularities
X. Sean Wang, Claudio Bettini, Alexander Brodsky, Sushil Jajodia
June 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 2
Full text available: pdf(659.16 KB) Additional Information: full citation, abstract, references, citings, index terms

The purpose of good database logical design is to eliminate data redundancy and isertion and deletion anomalies. In order to achieve this objective for temporal databases, the notions of temporal types, which formalize time granularities, and temporal functional dependencies (TFDs) are intrduced. A temporal type is a monotonic mapping from ticks of time (represented by positive integers) to time sets (represented by subsets of reals) and is used to capture ...

Keywords: Boyce-Codd normal form, graularity, normalization, temporal databases, temporal modules, temporal relations, third normal form

14 Spatial and temporal content-based access to hypervideo databases
Haitao Jiang, Ahmed K. Elmagarmid
December 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 4
Full text available: pdf(241.17 KB) Additional Information: full citation, abstract, index terms

Providing content-based video query, retrieval and browsing is the most important goal of a video database management system (VDBMS). Video data is unique not only in terms of its spatial and temporal characteristics, but also in the semantic associations manifested by the entities present in the video. This paper introduces a novel video data model called *Logical Hypervideo Data Model*. In addition to multilevel video abstractions, the model is capable of representing video entities that ...

Keywords: Ccontent-based query, Hot object, Hypervideo, Spatial and temporal constraint, Video database

15 Discovering temporal relations in molecular pathways using protein-protein interactions
Martin Farach-Colton, Yang Huang, John L. L. Woolford
March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**
Full text available: pdf(172.94 KB) Additional Information: full citation, abstract, references, index terms

The availability of large-scale protein-protein interaction data provides us with many opportunities to study molecular pathways involving proteins. In this paper we propose to mine temporal relations in molecular pathways by protein-protein interaction data. In particular, we model the assembly pathways of protein complexes with interval graphs and determine the temporal order of joining the pathway for proteins by ordering the vertices in the interaction graph. We develop a tool called Xro ...

Keywords: interval graphs, molecular pathways, probe interval graphs, protein-protein interaction, ribosomal assembly pathway, vertex ordering

16 Correctness verification of concurrent controller specifications
M. T. L. Schaefer, W. U. Klein
November 1992 **Proceedings of the conference on European design automation**
Full text available: pdf(647.60 KB) Additional Information: full citation, references, index terms

17 Synchronization of distributed multimedia data in an application-specific manner
N. Agarwal, S. Son
October 1994 **Proceedings of the second ACM international conference on Multimedia**
Full text available: pdf(766.81 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the distinctive features of multimedia systems is the wide range of applications they intend to cover, stretching the gamut from entertainment to life-critical applications such as real-time remote surgery. In the face of such a wide spectrum of applications, protocols used to deal with various issues in multimedia systems should be adaptable to the application. Synchronization is one of the key characteristics of a multimedia system. In this paper, we propose a mechanism for synchro ...

18 A method for constructing generalized non-normal-form models
Yiu-Kai Ng, Austin Melton, Elizabeth Unger
April 1999 **Proceedings of the 19th annual conference on Computer Science**
Full text available: pdf(708.35 KB) Additional Information: full citation, references, citings

19 On completeness of historical relational query languages
James Clifford, Albert Croker, Alexander Tuzhilin
March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1
Full text available: pdf(3.55 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Numerous proposals for extending the relational data model to incorporate the temporal dimension of data have appeared in the past several years. These proposals have differed considerably in the way that the temporal dimension has been incorporated both into the structure of the extended relations of these temporal models and into the extended relational algebra or calculus that they define. Because of these differences, it has been diffic ...

Keywords: completeness, historical databases, query languages, relational model, temporal databases, temporal grouping, temporal logic

20 Dialogue: A probabilistic approach to reference resolution in multimodal user interfaces
Joyce Y. Chai, Pengyu Hong, Michelle X. Zhou
January 2004 **Proceedings of the 9th international conference on Intelligent user interface**
Full text available: pdf(336.37 KB) Additional Information: full citation, abstract, references, index terms

Multimodal user interfaces allow users to interact with computers through multiple

modalities, such as speech, gesture, and gaze. To be effective, multimodal user interfaces must correctly identify all objects which users refer to in their inputs. To systematically resolve different types of references, we have developed a probabilistic approach that uses a graph-matching algorithm. Our approach identifies the most probable referents by optimizing the satisfaction of semantic, temporal, and cont ...

Keywords: graph matching, multimodal user interfaces, reference resolution

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	148	706/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
L2	17	706/51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
L3	17	706/57.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
L4	223	706/12.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:24
L5	283	382/156.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
L6	304	382/159.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
L7	296	382/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
L8	42	600/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:25
L9	165	(1 xor 2) (1 and 2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:26

L10	181	(9 xor 3) (9 and 3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:26
L11	401	(10 xor 4) (10 and 4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:26
L12	546	(5 xor 6) (5 and 6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:27
L13	819	(12 xor 7) (12 and 7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:28
L14	1212	(11 xor 13) (11 and 13)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:28
L15	1252	(14 xor 8) (14 and 8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:29
L16	2	(belief adj (network model)) with controller	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:31
L17	24	(belie$4 adj (network$3 model$1)) with control$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:52
L18	14	(learn$3 train$3) adj (control$3 system$1) same (statistics and probabilit$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:41
L19	37	(17 xor 18) (17 and 18)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:47

L20	12	(belie$4 adj (network$3 model$1)) and rule$1 and (tru$2 with fil$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:56
L21	2122	rule$1 same (spa$6 and physical$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:53
L22	17	21 and 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:56
L23	29	(20 xor 22) (20 and 22) and @ad<="20000616"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 09:57

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	BELLA-IVAN.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:44
L2	21	HOOD-CHRISTOPHER.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:44
L3	21	(1 xor 2) (1 and 2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:44
L4	34	(US-5016204$ US-5101362$ US-5208768$ US-5418888$ US-5493729$ US-5506999$ US-5574828$ US-5579468$ US-5638494$ US-5787234$ US-5819249$ US-5822745$ US-5874955$ US-6038556$ US-6058206$ US-6192355$ US-6256679$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/02 08:48
L5	0	(US-5016204$ US-5101362$ US-5208768$ US-5418888$ US-5493729$ US-5506999$ US-5574828$ US-5579468$ US-5638494$ US-5787234$ US-5819249$ US-5822745$ US-5874955$ US-6038556$ US-6058206$ US-6192355$ US-6256679$).did.	US-PGPUB	OR	ON	2004/12/02 08:48
L6	17	(US-5016204$ US-5101362$ US-5208768$ US-5418888$ US-5493729$ US-5506999$ US-5574828$ US-5579468$ US-5638494$ US-5787234$ US-5819249$ US-5822745$ US-5874955$ US-6038556$ US-6058206$ US-6192355$ US-6256679$).did.	USPAT	OR	ON	2004/12/02 08:48